

ABSTRACT

Disclosed herein are a high-density recording medium and a method and apparatus for controlling data playback thereof. Playback control information, such as channel bit length
5 information, is recorded in a burst cutting area (BCA) of a high-density optical disc in a wobble type. When the high-density optical disc is reproduced, the playback control information is detected in a push-pull signal detection mode and the optimum data playback operation corresponding to the recording capacity of the
10 optical disc is performed on the basis of the detected playback control information. Alternatively, bit error rates (BERs) are calculated while a plurality of predetermined bit detection modes are sequentially performed, one of the bit detection modes corresponding to the smallest one of the calculated BERs is
15 selected and the data playback operation is performed in the selected bit detection mode. Therefore, it is possible to perform a data playback operation optimal to the recording capacity of a BD-ROM (Blu-ray Disc-ROM) even through disc information (DI) is recorded in a PIC (Permanent Information & Control data) zone
20 of the BD-ROM in a recording format necessitating a decoding process and the recording capacity is any of different values such as 23Gbytes, 25Gbytes, 27Gbytes, etc.